

IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

1. (currently amended) A storage system comprising:
 - a control unit for receiving a data write request from a plurality of host computers which configure a plurality of host groups; and
 - at least one storage unit coupled to said control unit, said storage unit has a plurality of storage regions for storing data, wherein said control unit has security information indicating relationships between each of said host groups and each of said storage regions accessible for each of said host groups;
 - wherein said security information is used by said control unit to reject accesses from other host groups other than each of said host groups that are permitted to access to each of said storage regions,
 - wherein said control unit receives a Port Login (PLOGI) frame from a new host computer which is newly coupled to said control unit, and acquires a World Wide Name (WWN) and a source identifier (S_ID) contained in said PLOGI frame from said PLOGI frame so that an administrator can select a storage region of said plurality of storage regions to be accessed from a host group to which said new host computer belongs by using said acquired WWN,

;

wherein setting/alteration of access permit/deny to storage regions from said host computers is carried out on an identifier basis, said identifier being selectable to be either an identifier designating a plurality of host

computers collectively, or an identifier designating one of said host computers,

wherein when setting/alteration of access permit/deny to storage regions using an identifier designating a plurality of host computers collectively is selected, the identifier designating said host computers collectively including said new host computer and storage regions are displayed on a display, and

wherein when setting/alteration of access permit/deny to storage regions using an identifier designating one of said host computers is selected, the identifier designating said new host computer and storage regions are displayed on the display.

2. (previously presented) A storage system according to claim 1, wherein said control unit sends Accept (ACC) frame or Link Service Reject (LS_RJT) frame based on said received PLOGI frame.

3. (previously presented) A storage system according to claim 1, wherein said new host computer is newly started up.

4. (previously presented) A storage system according to claim 1, wherein said control unit generates data to display said acquired WWN of said new host computer.

5. (previously presented) A storage system according to claim 1, wherein said control unit provides data to display a table which is

relationships between said host group belonging to said new host computer and said storage region to be accessed from said host group belonging to said newly host computer.

6. (previously presented) A storage system according to claim 1, wherein said administrator can select an access enable right for said new host computer to access said storage region of said plurality of storage regions.

7. (previously presented) A storage system according to claim 1, wherein said storage region is a logical unit.

8. (previously presented) A storage system comprising:
a control unit for receiving a data write request from a plurality of host computers which configure a plurality of host groups; and
at least one storage unit coupled to said control unit, said storage unit has a plurality of storage regions for storing data,
wherein said control unit has security information indicating relationships between each of said host groups and each of said storage regions accessible for each of said host groups,
wherein said security information is used by said control unit to reject accesses from other host groups other than each of said host groups that are permitted to access to each of said storage regions,
wherein said control unit receives a Port Login (PLOGI) frame from a new host computer which is newly coupled to said storage control unit, and

acquires a source identifier (S_ID) contained in said PLOGI frame from said PLOGI frame so that an administrator can select a storage region of said plurality of storage regions to be accessed from a host group belonging to said new host computer,

wherein setting/alteration of access permit/deny to storage regions from said host computers is carried out on an identifier basis, said identifier being selectable to be either an identifier designating a plurality of host computers collectively, or an identifier designating one of said host computers,

wherein when setting/alteration of access permit/deny to storage regions using an identifier designating a plurality of host computers collectively is selected, the identifier designating said host computers collectively including said new host computer and storage regions are displayed on a display, and

wherein when setting/alteration of access permit/deny to storage regions using an identifier designating one of said host computers is selected, the identifier designating said new host computer and storage regions are displayed on the display.

9. (previously presented) A storage system according to claim 8, wherein said control unit sends Accept (ACC) frame or Link Service Reject (LS_RJT) frame based on said received PLOGI frame.

10. (previously presented) A storage system according to claim 8, wherein said new host computer is newly started up.

11. (previously presented) A storage system according to claim 8, wherein said control unit acquires a World Wide Name (WWN) contained in said PLOGI frame from said PLOGI frame and generates data to display said acquired WWN of said new host computer.

12. (previously presented) A storage system according to claim 8, wherein said control unit provides data to display a table which is relationships between said host group belonging to said new host computer and said storage region to be accessed from said host group belonging to said new host computer.

13. (previously presented) A storage system according to claim 8, wherein said administrator can select an access enable right for said new host computer to access said storage region of said plurality of storage regions.

14. (previously presented) A storage system according to claim 8, wherein said storage region is a logical unit.

15. (previously presented) A storage system according to claim 8, wherein said control unit acquires a World Wide Name (WWN) contained in said PLOGI frame from said PLOGI frame.

16. (previously presented) A storage system comprising:

a control unit coupled to a network, said control unit receives a data write request from a plurality of host computers which configure a plurality of host groups; and

at least one storage unit coupled to said control unit, said storage unit has a plurality of logical units for storing data;

wherein said control unit receives a Port Login (PLOGI) frame from a new host computer which is newly coupled to said network, acquires a source identifier (S_ID) contained in said PLOGI frame from said PLOGI frame, and provides data to display relationships between a new host group belonging to said new host computer and a logical unit of said plurality of logical units to be accessed from said new host group,

wherein setting/alteration of access permit/deny to storage regions from said host computers is carried out on an identifier basis, said identifier being selectable to be either an identifier designating a plurality of host computers collectively, or an identifier designating one of said host computers,

wherein when setting/alteration of access permit/deny to storage regions using an identifier designating a plurality of host computers collectively is selected, the identifier designating said host computers collectively including said new host computer and storage regions are displayed on a display, and

wherein when setting/alteration of access permit/deny to storage regions using an identifier designating one of said host computers is selected, the identifier designating said new host computer and storage regions are displayed on the display.

17. (previously presented) A storage system according to claim 16, wherein said control unit sends Accept (ACC) frame or Link Service Reject (LS_RJT) frame based on said received PLOGI frame.

18. (previously presented) A storage system according to claim 16, wherein said new host computer is newly started up.

19. (previously presented) A storage system according to claim 16, wherein said control unit acquires a World Wide Name (WWN) contained in said PLOGI frame from said PLOGI frame and generates data to display said acquired WWN of said new host computer.

20. (previously presented) A storage system according to claim 16, wherein said control unit makes state that an administrator can select an access enable right for said new host group to access said logical unit of said plurality of logical units.

21. (previously presented) A storage system according to claim 16, wherein said storage control unit acquires a World Wide Name (WWN) contained in said PLOGI frame from said PLOGI frame.

22. (previously presented) A storage system comprising:
a control unit for receiving a data write request from a plurality of host computers which configure a plurality of host groups; and

at least one storage unit coupled to said control unit, said storage unit has a plurality of storage regions for storing data,

wherein said control unit has security information indicating relationships between each of said host groups and each of said storage regions accessible for each of said host groups,

wherein said security information is used by said control unit to reject accesses from other host groups other than each of said host groups that are permitted to access to each of said storage regions,

wherein said control unit receives a Port Login (PLOGI) frame from a new host computer which is newly coupled to said control unit, and acquires a World Wide Name (WWN) and a source identifier (S_ID) contained in said PLOGI frame from said PLOGI frame so that an administrator can select a storage region of said plurality of storage regions to be accessed from a new host group to which said new host computer belongs by using said acquired WWN,

wherein said administrator can select a storage region of said plurality of storage regions to not be accessed from said new host group by using said acquired WWN,

wherein setting/alteration of access permit/deny to storage regions from said host computers is carried out on an identifier basis, said identifier being selectable to be either an identifier designating a plurality of host computers collectively, or an identifier designating one of said host computers,

wherein when setting/alteration of access permit/deny to storage regions using an identifier designating a plurality of host computers

collectively is selected, the identifier designating said host computers collectively including said new host computer and storage regions are displayed on a display, and

wherein when setting/alteration of access permit/deny to storage regions using an identifier designating one of said host computers is selected, the identifier designating said new host computer and storage regions are displayed on the display.

23. (previously presented) A storage system according to claim 22, wherein said control unit sends Accept (ACC) frame or Link Service Reject (LS_RJT) frame based on said received PLOGI frame.

24. (previously presented) A storage system according to claim 22, wherein said new host computer is newly started up.

25. (previously presented) A storage system according to claim 22, wherein said control unit generates data to display said acquired WWN of said new host computer.

26. (previously presented) A storage system according to claim 22, wherein said control unit provides data to display a table which is relationships between said host group belonging to said new host computer and said storage region to be accessed from said host group belonging to said new host computer.

27. (previously presented) A storage system according to claim 22, wherein said administrator can select an access enable right for said new host computer to access said storage region of said plurality of storage regions.

28. (previously presented) A storage system according to claim 22, wherein said storage region is a logical unit.

29. (previously presented) A storage system comprising:
a control unit for receiving a data write request from a plurality of host computers which configure a plurality of host groups; and
at least one storage unit coupled to said control unit, said storage unit has a plurality of storage regions for storing data,
wherein said control unit has security information indicating relationships between each of said host groups and each of said storage regions accessible for each of said host groups,
wherein said security information is used by said control unit to reject accesses from other host groups other than each of said host groups that are permitted to access to each of said storage regions,
wherein said control unit receives a Port Login (PLOGI) frame from a new host computer which is newly coupled to said control unit, and acquires a source identifier (S_ID) contained in said PLOGI frame from said PLOGI frame so that an administrator can select a storage region of said plurality of storage regions to be accessed from a new host group belonging to said new host computer,

wherein said administrator can select a storage region of said plurality of storage regions to not be accessed from said new host group,

wherein setting/alteration of access permit/deny to storage regions from said host computers is carried out on an identifier basis, said identifier being selectable to be either an identifier designating a plurality of host computers collectively, or an identifier designating one of said host computers,

wherein when setting/alteration of access permit/deny to storage regions using an identifier designating a plurality of host computers collectively is selected, the identifier designating said host computers collectively including said new host computer and storage regions are displayed on a display, and

wherein when setting/alteration of access permit/deny to storage regions using an identifier designating one of said host computers is selected, the identifier designating said new host computer and storage regions are displayed on the display.

30. (previously presented) A storage system according to claim 29, wherein said control unit sends Accept (ACC) frame or Link Service Reject (LS_RJT) frame based on said received PLOGI frame.

31. (previously presented) A storage system according to claim 29, wherein said new host computer is newly started up.

32. (previously presented) A storage system according to claim

29, wherein said control unit acquires a World Wide Name (WWN) contained in said PLOGI frame from said PLOGI frame and generate data to display said acquired WWN of said new host computer.

33. (previously presented) A storage system according to claim 29, wherein said control unit provides data to display table which is relationships between said host group belonging to said new host computer and said storage region to be accessed from said host group belonging to said new host computer.

34. (previously presented) A storage system according to claim 29, wherein said administrator can select an access enable right for said new host computer to access said storage region of said plurality of storage regions.

35. (previously presented) A storage system according to claim 29, wherein said storage region is a logical unit.

36. (previously presented) A storage system according to claim 29, wherein said control unit acquires a World Wide Name (WWN) contained in said PLOGI frame from said PLOGI frame.

37. (previously presented) A storage system comprising:
a control unit coupled to a network, said control unit receives a data write request from a plurality of host computers which configure a plurality of

host groups; and at least one storage unit coupled to said control unit, said storage unit has a plurality of logical units for storing data,

wherein said control unit receives a Port Login (PLOGI) frame from a new host computer which is newly coupled to said network, acquires a source identifier (S_ID) contained in said PLOGI frame from said PLOGI frame, and provides data to display relationships between a new host group belonging to said new host computer and a logical unit of said plurality of logical units to be accessed from said new host group,

wherein an administrator can select a storage region of said plurality of storage regions to not be accessed from said new host group,

wherein setting/alteration of access permit/deny to storage regions from said host computers is carried out on an identifier basis, said identifier being selectable to be either an identifier designating a plurality of host computers collectively, or an identifier designating one of said host computers,

wherein when setting/alteration of access permit/deny to storage regions using an identifier designating a plurality of host computers collectively is selected, the identifier designating said host computers collectively including said new host computer and storage regions are displayed on a display, and

wherein when setting/alteration of access permit/deny to storage regions using an identifier designating one of said host computers is selected, the identifier designating said new host computer and storage regions are displayed on the display.

38. (previously presented) A storage system according to claim 37, wherein said control unit sends Accept (ACC) frame or Link Service Reject (LS_RJT) frame based on said received PLOGI frame.

39. (previously presented) A storage system according to claim 37, wherein said new host computer is newly started up.

40. (previously presented) A storage system according to claim 37, wherein said control unit acquires a World Wide Name (WWN) contained in said PLOGI frame from said PLOGI frame and generate data to display said acquired WWN of said new host computer.

41. (previously presented) A storage system according to claim 37, wherein said control unit makes state that an administrator can select an access enable right for said new host group to access said logical unit of said plurality of logical units.

42. (previously presented) A storage system according to claim 37, wherein said control unit acquires a World Wide Name (WWN) contained in said PLOGI frame from said PLOGI frame.

REMARKS

This amendment is being presented to correct a typographical error on line 17 of claim 1. Entry of this amendment is respectfully requested.